### HEAT PUMP / COOL ONLY

| Size | Cooling Capacity Btu/hr | W | Input W | A | EER Btu/hr | W/W | Heating Capacity Btu/hr | W | Input W | A | COP W/W | Cool Cooling Capacity Btu/hr | W | Cooling Input W | A | EER Btu/hr | W/W |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 20 | 20000 | 5862 | 1915 | 9.2 | 10.44 | 3.06 | 18750 | 5495 | 1575 | 7.5 | 3.49 | 20000 | 5862 | 1915 | 9.2 | 10.44 | 3.06 |
| 28 | 25800 | 7561 | 2520 | 12.3 | 10.24 | 3.00 | 25000 | 7327 | 2265 | 10.9 | 3.23 | 25800 | 7561 | 2520 | 12.3 | 10.24 | 3.00 |
| 32 | 30700 | 8998 | 3080 | 15.7 | 9.97 | 2.92 | 26000 | 7620 | 2885 | 13.5 | 2.64 | 30700 | 8998 | 3080 | 15.7 | 9.97 | 2.92 |
| 39 | 39500 | 11577 | 4020 | 19.5 | 9.82 | 2.88 | 33200 | 9730 | 3260 | 15.8 | 2.98 | 39500 | 11577 | 4020 | 19.5 | 9.82 | 2.88 |
| 48 | 48000 | 14068 | 3955 | 9.5 | 12.14 | 3.56 | 42000 | 12309 | 3815 | 7.4 | 3.22 | 49500 | 14508 | 3970 | 9.2 | 12.47 | 3.65 |
| 60 | 58000 | 16999 | 5100 | 11.2 | 11.37 | 3.33 | 52000 | 15240 | 4910 | 10.7 | 3.10 | 57500 | 16852 | 5045 | 10.9 | 11.4 | 3.34 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| System Model | Heat Pump<br>Cool Only | 53CCD20-H<br>53CCD20-C | 53CCD28-H<br>53CCD28-C | 53CCD32-H<br>53CCD32-C | 53CCD39-H<br>53CCD39-C | 53CCD48-H<br>53CCD48-C | 53CCD60-H<br>53CCD60-C |
| Indoor Unit Model | Heat Pump<br>Cool Only | 42CCD20-H<br>42CCD20-C | 42CCD28-H<br>42CCD28-C | 42CCD32-H<br>42CCD32-C | 42CCD39-H<br>42CCD39-C | 42CCD48-H<br>42CCD48-C | 42CCD60-H<br>42CCD60-C |
| Outdoor Unit Model | Heat Pump<br>Cool Only | 38CCD20-H<br>38CCD20-C | 38CCD28-H<br>38CCD28-C | 38CCD32-H<br>38CCD32-C | 38CCD39-H<br>38CCD39-C | 38CCD48-H<br>38CCD48-C | 38CCD60-H<br>38CCD60-C |
| Power Supply | Indoor | V/PH/HZ | 200-240/1/50 | | | | |
| | Outdoor | | 200-240/1/50 | | | | 380-420/3/50 |
| Refrigerant Type/Connection Type | | | R22 / Flare | | | | |
| Refrigerant Lines | Suction OD Inch | 5/8 | 5/8 | 5/8 | 3/4 | 3/4 | 7/8 |
| | Liquid OD Inch | 3/8 | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 |

**INDOOR UNIT**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Dehumidification | L / h | 2.5 | 3.2 | 4 | 4.5 | 5.6 | 6.8 |
| Air Flow rate (At 0 ESP & High speed) | c.f.m | 650 | 675 | 720 | 1025 | 1200 | 1340 |
| | m³/hr | 1102 | 1144 | 1220 | 1737 | 2034 | 2271 |
| Sound Pressure (H / M / L) | dBA | 57 / 53 / 43 | 57 / 51 / 48 | 58 / 56 / 54 | 60 / 57 / 54 | 59 / 57 / 53 | 60 / 57 / 55 |
| Net Dimensions | Width mm | 1000 | 1000 | 1210 | 1420 | 1420 | 1630 |
| | Height mm | 270 | 270 | 270 | 270 | 370 | 370 |
| | Depth mm | 590 | 590 | 590 | 590 | 590 | 590 |
| Net Weight | Kg | 26 | 28 | 30 | 35 | 49 | 56 |
| Drain Hose (Inner Diameter) | Inch | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 |

**OUTDOOR UNIT**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Net Dimensions | Width mm | 860 | 860 | 860 | 860 | 860 | 860 |
| | Height mm | 575 | 575 | 575 | 720 | 1150 | 1150 |
| | Depth mm | 350 | 350 | 350 | 350 | 350 | 350 |
| Net Weight | Kg | 52.8 | 58.5 | 62.4 | 79.5 | 90 | 92 |

- Cooling Capacity, Dehumidification and Energy Efficiency Ratio (EER) are based on ISO 5151 Standards:
  26.6/19.4 °C db/wb Indoor Temperature.     35°C db Outdoor Temperature.     High Air Flow
  220 volts power supply (for sizes 20-28-39)     380 volts power supply (for sizes 48-60)

- Heating Capacity and Coefficient Of Performance (COP) are based on ISO 5151 Standards:
  20°C db Indoor Temperature.     7/6°C db/wb Outdoor Temperature.     High Air Flow
  220 volts power supply (for sizes 20-28-39)     380 volts power supply (for sizes 48-60)

Specifications are subject to change without notice according to Carrier Policy of continuous development.

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# Airflow Versus Static Pressure Performance

## 42CCD20

| Fan Speed | External Static Pressure | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa |
| | 0 | 0 | 0.05 | 12.5 | 0.10 | 25 | 0.15 | 37.5 | 0.20 | 50 | 0.25 | 62.5 | 0.30 | 75 |
| | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h |
| High | 650 | 1102 | 595 | 1008 | 540 | 915 | 465 | 788 | 385 | 652 | 305 | 517 | 225 | 381 |
| Medium | 560 | 949 | 505 | 856 | 450 | 763 | 370 | 627 | 295 | 500 | 225 | 381 | | |
| Low | 360 | 610 | 310 | 525 | 250 | 424 | 170 | 288 | | | | | | |

## 42CCD28

| Fan Speed | External Static Pressure | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa |
| | 0 | 0 | 0.05 | 12.5 | 0.10 | 25 | 0.15 | 37.5 | 0.20 | 50 | 0.25 | 62.5 | 0.30 | 75 |
| | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h |
| High | 675 | 1144 | 620 | 1051 | 570 | 966 | 485 | 822 | 405 | 686 | 330 | 559 | 260 | 441 |
| Medium | 570 | 966 | 520 | 881 | 440 | 746 | 390 | 661 | 310 | 525 | 245 | 415 | 180 | 305 |
| Low | 490 | 830 | 435 | 737 | 395 | 669 | 340 | 576 | 265 | 449 | 190 | 322 | | |

## 42CCD32

| Fan Speed | External Static Pressure | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa |
| | 0 | 0 | 0.05 | 12.5 | 0.10 | 25 | 0.15 | 37.5 | 0.20 | 50 | 0.25 | 62.5 | 0.30 | 75 |
| | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h |
| High | 720 | 1220 | 680 | 1153 | 625 | 1059 | 575 | 975 | 530 | 898 | 485 | 822 | 440 | 746 |
| Medium | 580 | 983 | 535 | 907 | 495 | 839 | 450 | 763 | 410 | 695 | 340 | 576 | 280 | 475 |
| Low | 470 | 797 | 430 | 729 | 380 | 644 | 350 | 593 | 290 | 491 | 225 | 381 | | |

## 42CCD39

| Fan Speed | External Static Pressure | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa |
| | 0 | 0 | 0.05 | 12.5 | 0.10 | 25 | 0.15 | 37.5 | 0.20 | 50 | 0.25 | 62.5 | 0.30 | 75 |
| | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h |
| High | 1030 | 1746 | 950 | 1610 | 850 | 1441 | 750 | 1271 | 655 | 1110 | 560 | 949 | 465 | 788 |
| Medium | 890 | 1508 | 795 | 1347 | 700 | 1186 | 595 | 1008 | 490 | 830 | 390 | 661 | 295 | 500 |
| Low | 710 | 1203 | 620 | 1051 | 530 | 898 | 425 | 720 | 325 | 551 | 240 | 407 | | |

## 42CCD48

| Fan Speed | External Static Pressure | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa |
| | 0 | 0 | 0.05 | 12.5 | 0.10 | 25 | 0.15 | 37.5 | 0.20 | 50 | 0.25 | 62.5 | 0.30 | 75 |
| | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h |
| High | 1200 | 2034 | 1135 | 1924 | 1065 | 1805 | 955 | 1619 | 840 | 1424 | 725 | 1229 | 610 | 1034 |
| Medium | 1045 | 1771 | 980 | 1661 | 915 | 1551 | 815 | 1381 | 710 | 1203 | 605 | 1025 | 500 | 847 |
| Low | 850 | 1441 | 780 | 1322 | 705 | 1195 | 605 | 1025 | 505 | 856 | 405 | 686 | 305 | 517 |

## 42CCD60

| Fan Speed | External Static Pressure | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa | in.W | Pa |
| | 0 | 0 | 0.05 | 12.5 | 0.10 | 25 | 0.15 | 37.5 | 0.20 | 50 | 0.25 | 62.5 | 0.30 | 75 |
| | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h | cfm | m³/h |
| High | 1340 | 2271 | 1270 | 2153 | 1190 | 2017 | 1110 | 1881 | 1005 | 1703 | 850 | 1441 | 665 | 1127 |
| Medium | 1120 | 1898 | 1070 | 1814 | 1005 | 1703 | 930 | 1576 | 820 | 1390 | 680 | 1153 | 525 | 890 |
| Low | 970 | 1644 | 920 | 1559 | 850 | 1441 | 775 | 1314 | 660 | 1119 | 540 | 915 | 390 | 661 |

# MINI CENTRAL

## Features

### Super Control and Safety Protections
- Standard factory supplied room controller to be mounted on the wall.
- Optional wireless remote control used with standard room controller
- Auto restart feature.
- 3 (Three) minutes time delay for compressor.
- 90 seconds minimum operation time for compressor to allow sufficient time for oil to return to the compressor.
- Dry mode reduces humidity by computerized dehumidification.
- Sleep function provides healthy sleep environment with energy saving.
- ON Timer Function
- OFF Timer Function
- Key lock mode to prevent change of operation settings.
- Frost prevention of indoor coil when the system is operating in cool mode.
- Defrost protection of outdoor coil when the system is operating in heat mode.
- Cold draft protection when the system is operating in heat mode to prevent cold air from blowing into the space to be air-conditioned.

### Super Compact Technology
- Compact indoor unit for easy installation above false ceiling.
- Compact outdoor unit.

### Super Efficient and Tropical with Minimum Energy Consumption
- Innovative Carrier Heat Transfer and Aerodynamics Technology with efficient compressor and coils leading to Hi-Tech. AMS (Air Management System).

### Super Quiet
- Newly designed sound minimized air management system provides noise-free operation.
- Carrier uneven aerofoil fan and propeller fan technologies for smooth air flow and quiet operation.

### Reliability
- Standard galvanized sheet metal casing protects against rust.
- Polyester powder coated drain pan for extra rust protection.

### Super Easy Installation
- Standard return air plenum complete with air filters.
- Field interchangeable piping connections from right to left hand side to suit various applications.

### Super Easy Service & Maintenance
- Integral high-pitched V-shaped drain pan minimizes wet surface and residual water during off cycles and inhibits the growth of bacteria that may cause smells.
- Self-diagnostics to determine malfunctions due to incorrect installation or abnormal use.
- Easy access to components.

### Extra Super safety protections
- Thermistor to protect the compressor against refrigerant leak.
- Crankcase heater to guard the compressor against flood back conditions and to eliminate oil fluffing on start up (only for sizes 48-60).
- Internal overloads for compressor and motor(s).
- External sensitive quick trip overload to protect the compressor against excessive current (only for sizes 48-60).

## Miraco
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Nothing Beats Experience ... Nothing Beats Life With Carrier